

Fig. 1

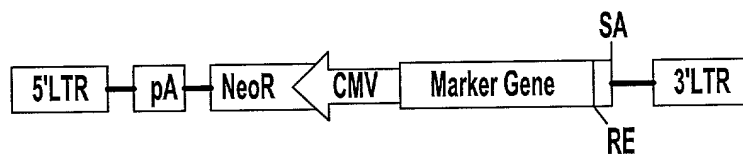


Fig. 2A

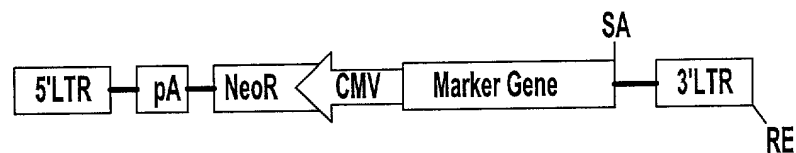


Fig. 2B

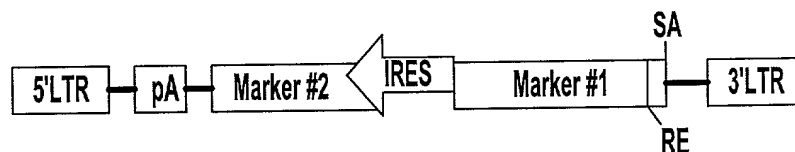


Fig. 2C

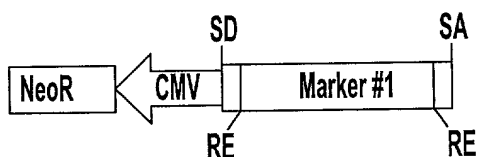


Fig. 2D

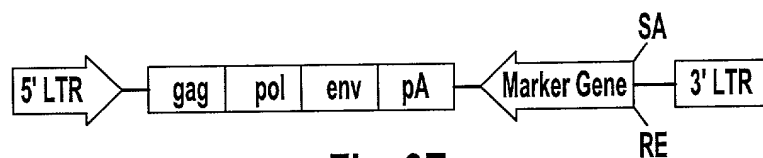


Fig. 2E

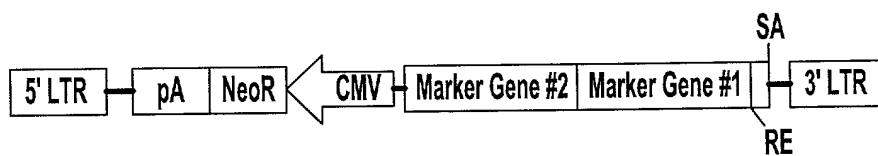


Fig. 2F



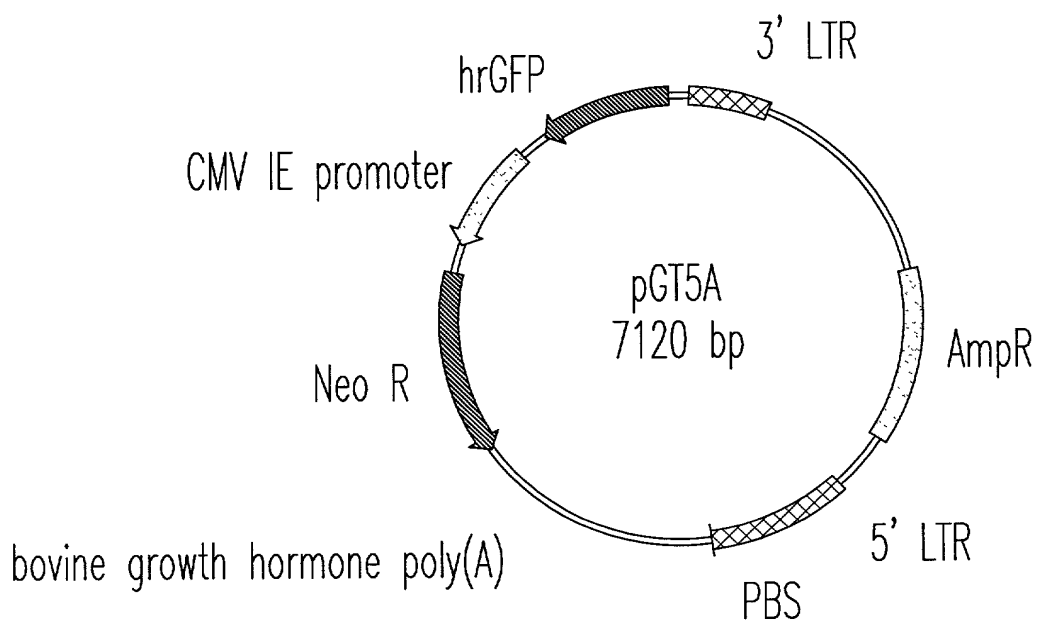


Fig. 4A

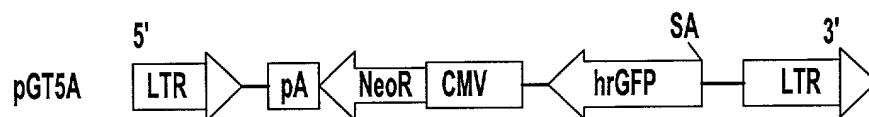


Fig. 4B

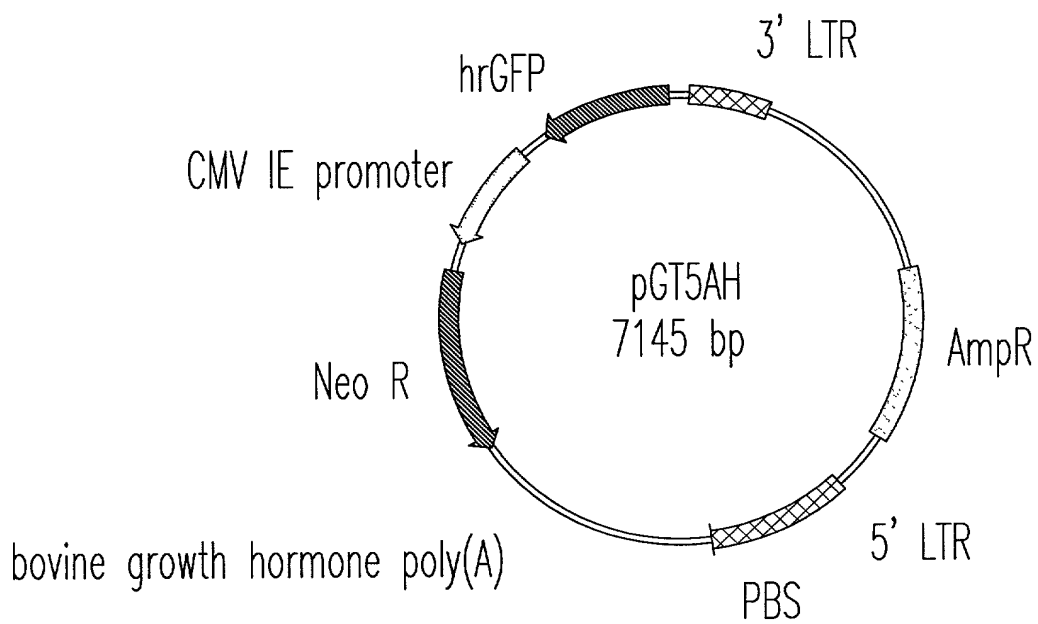


Fig. 5A

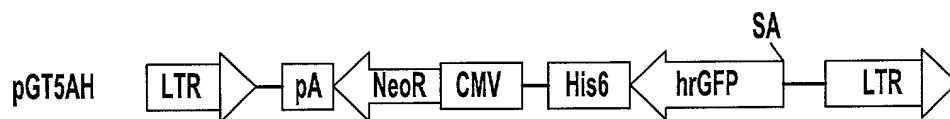
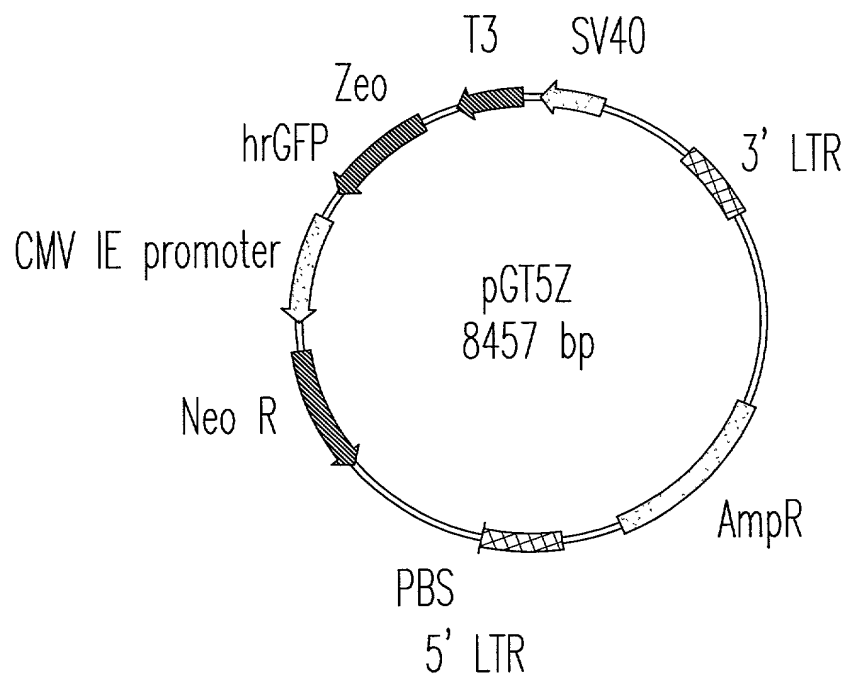
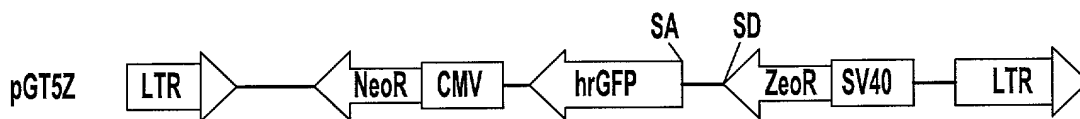


Fig. 5B



**Fig. 6A**



**Fig. 6B**

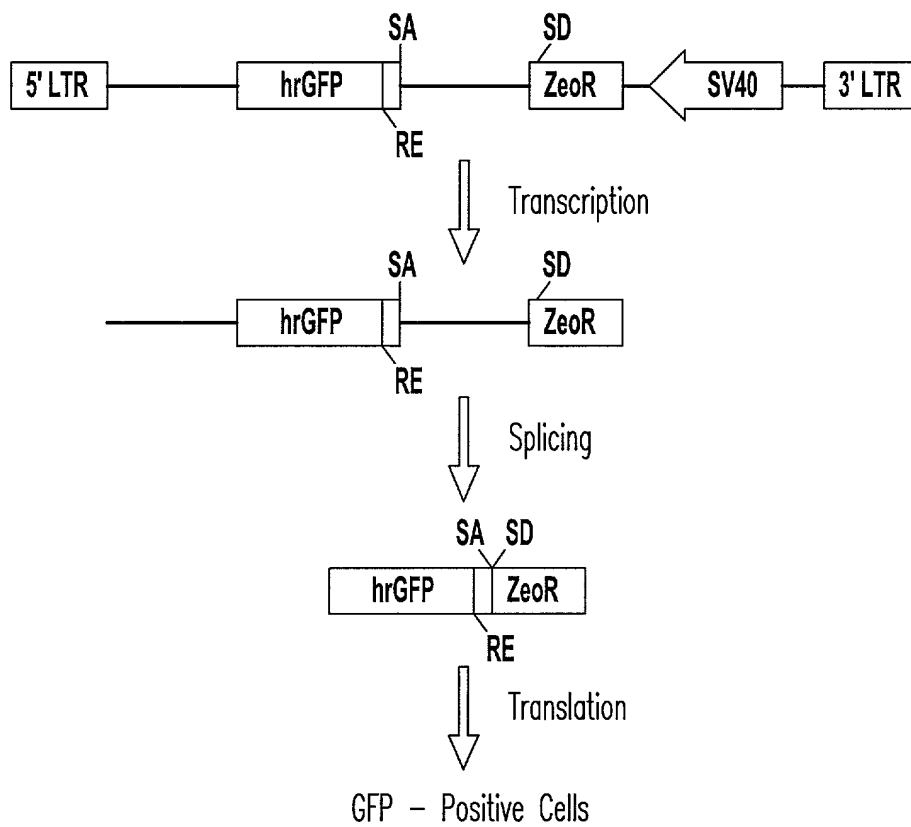


Fig. 7A

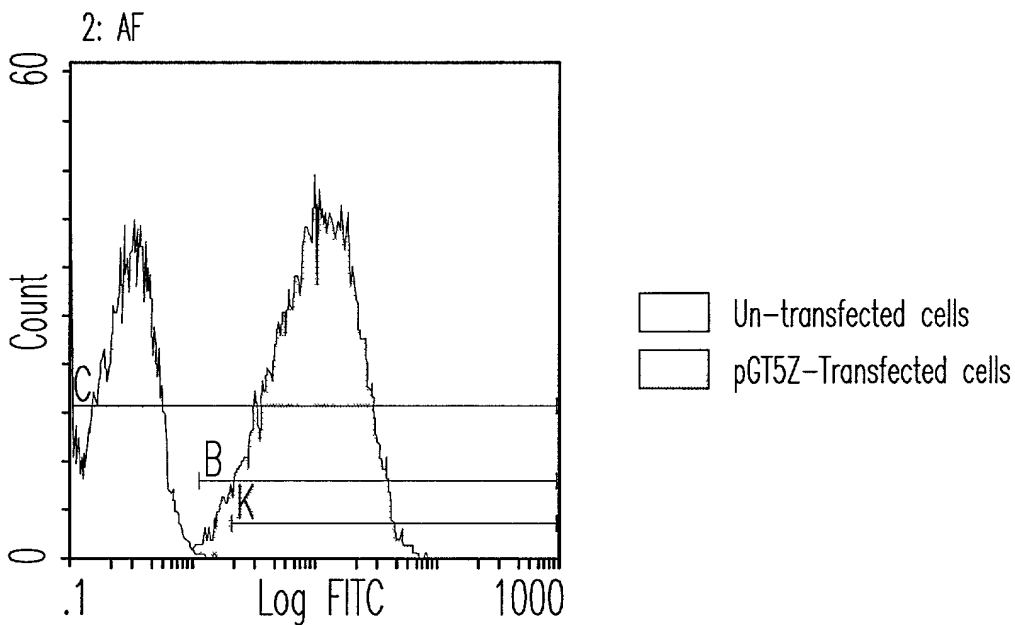
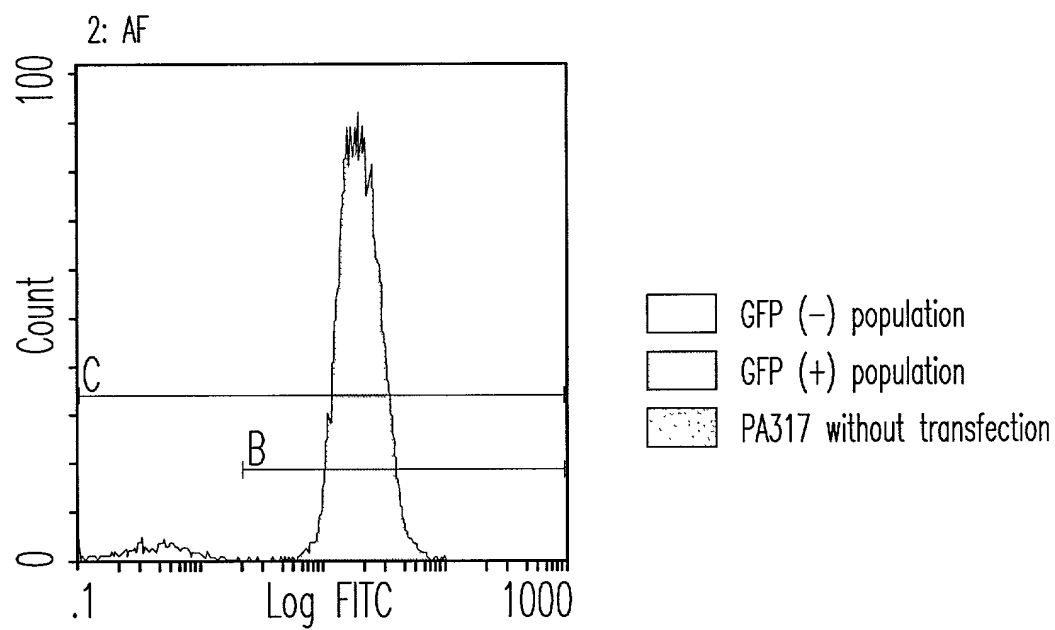
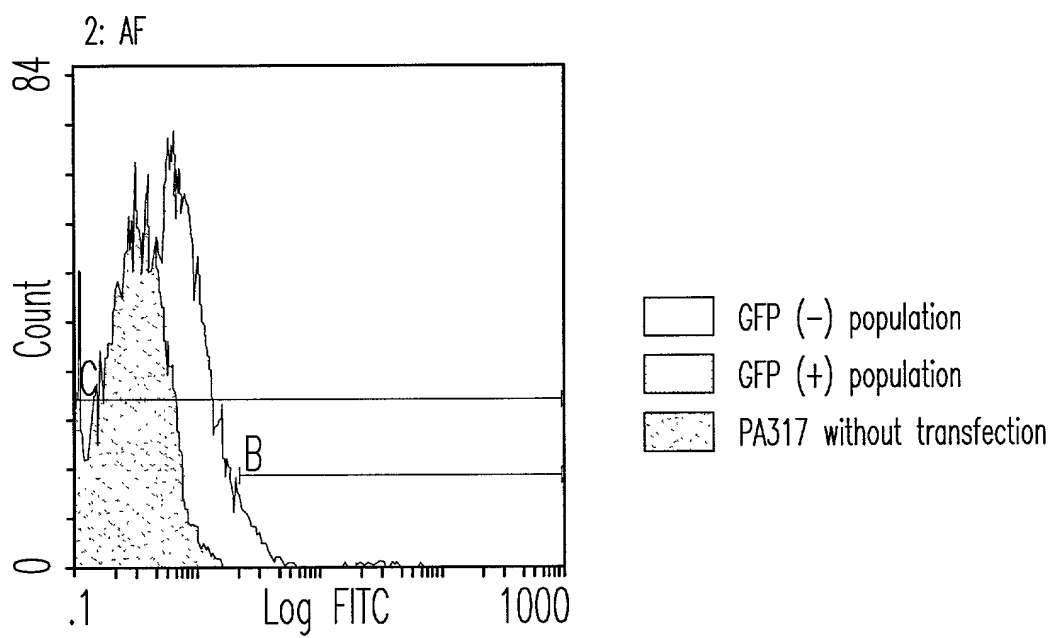


Fig. 7B





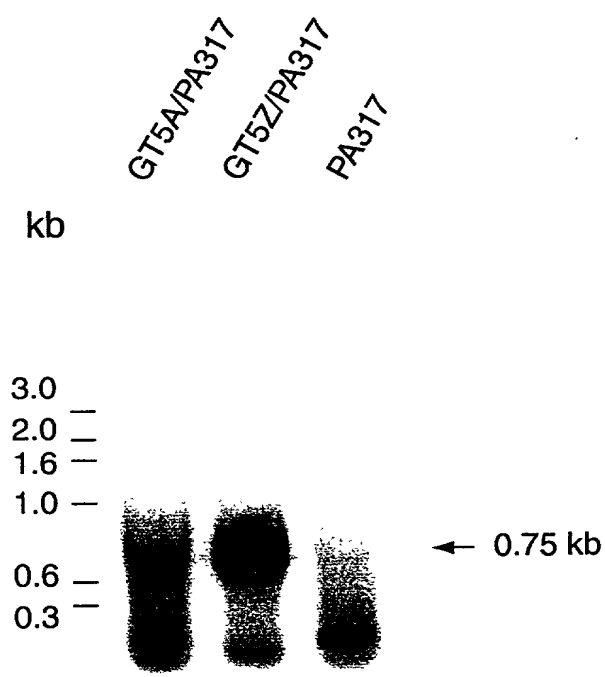
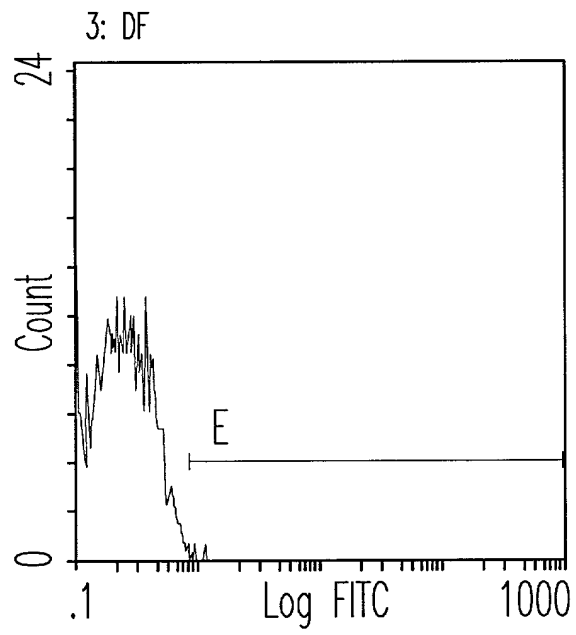
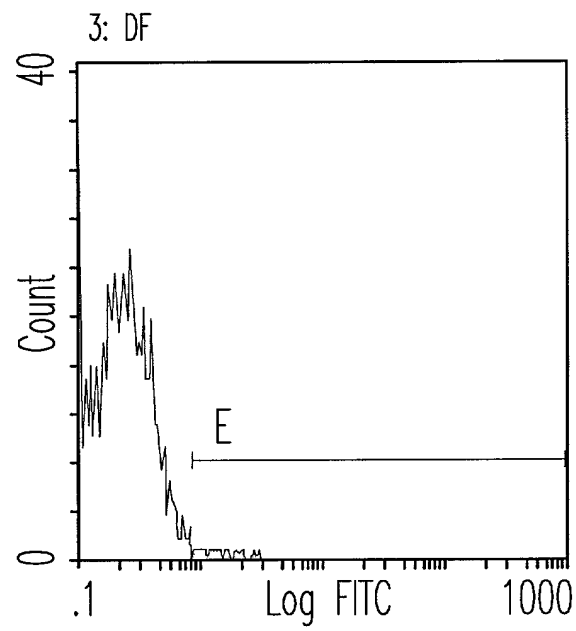


Fig. 9



**Fig. 10A**



**Fig. 10B**

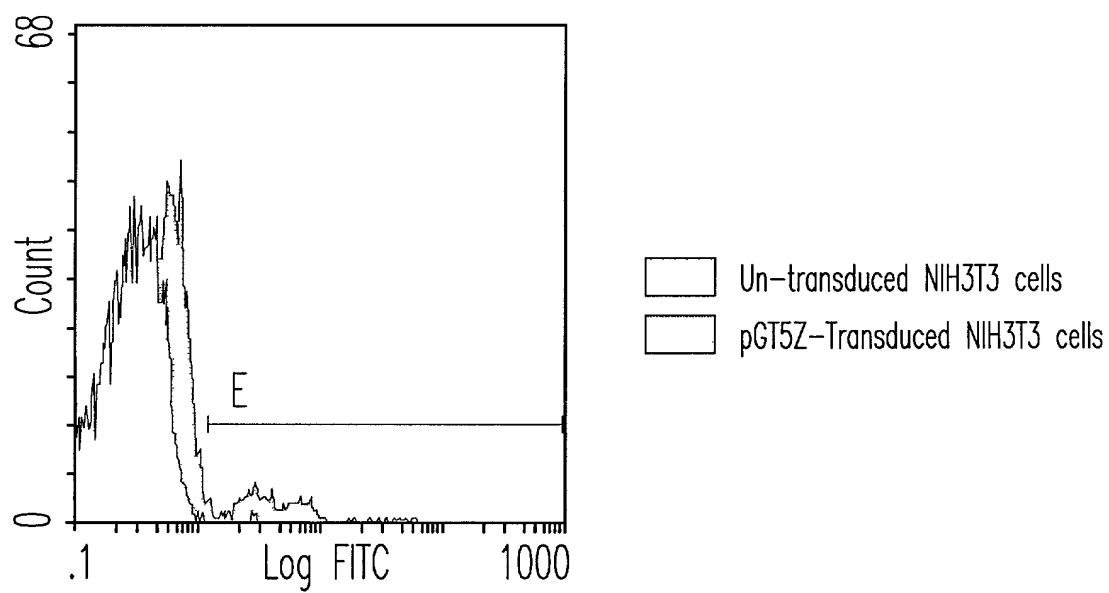


Fig. 11

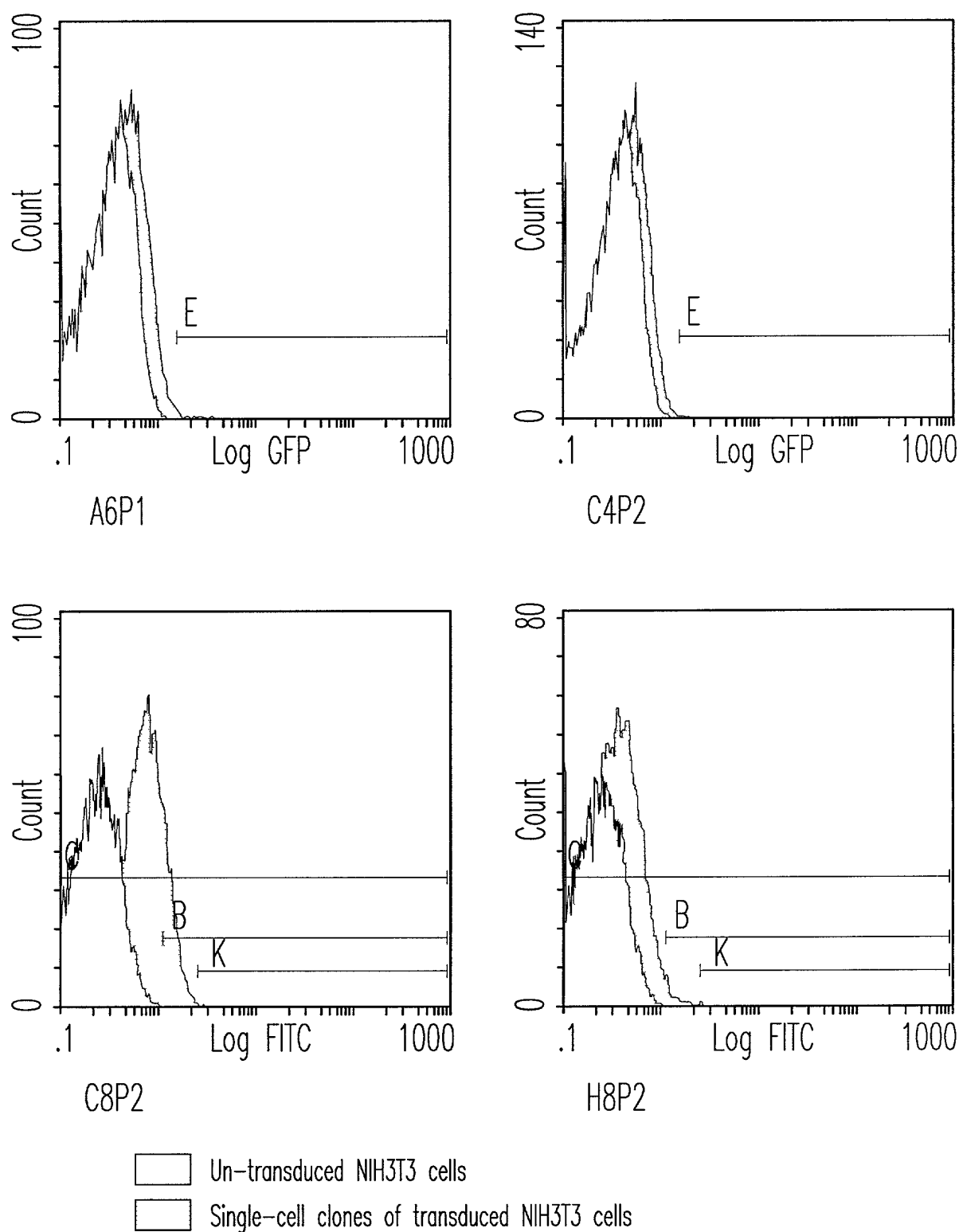
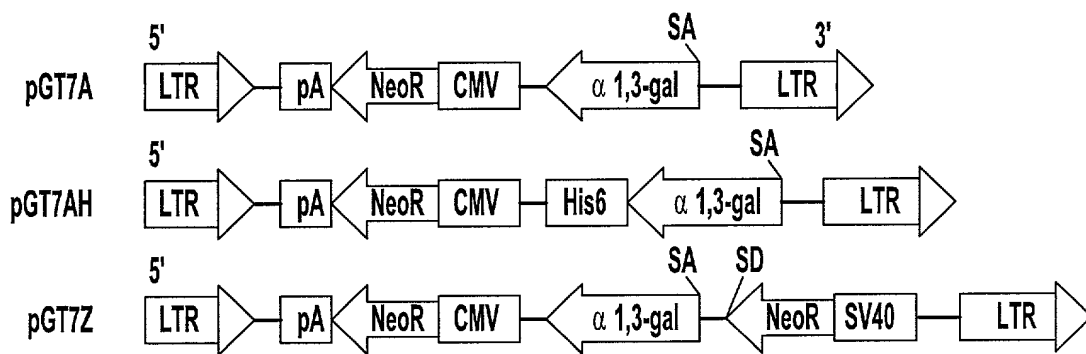
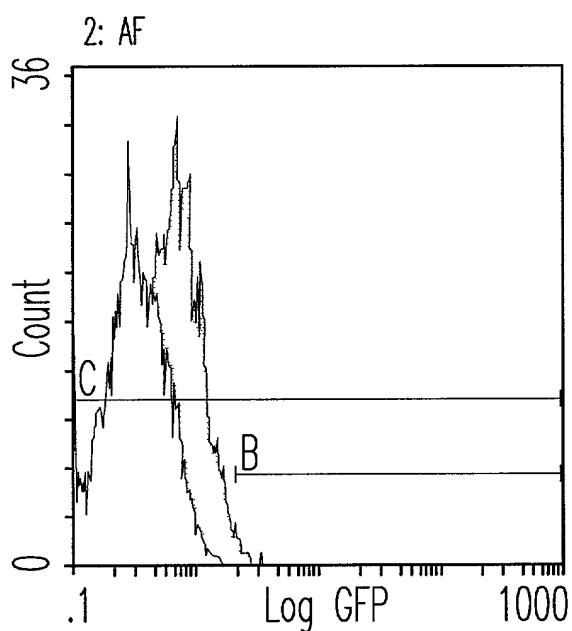


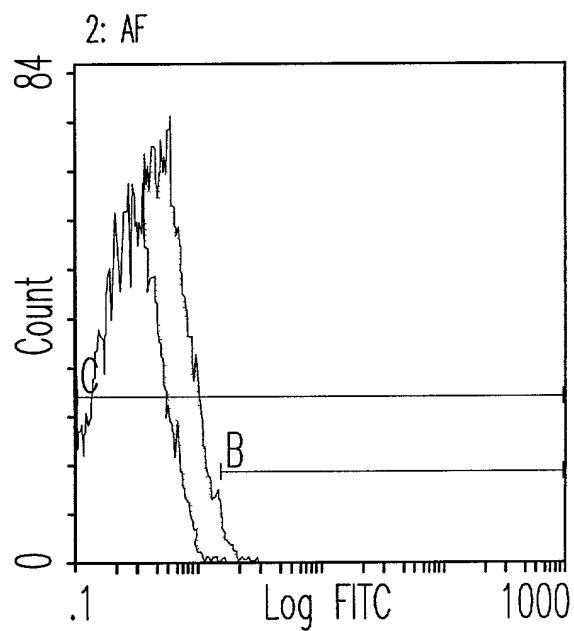
Fig. 12



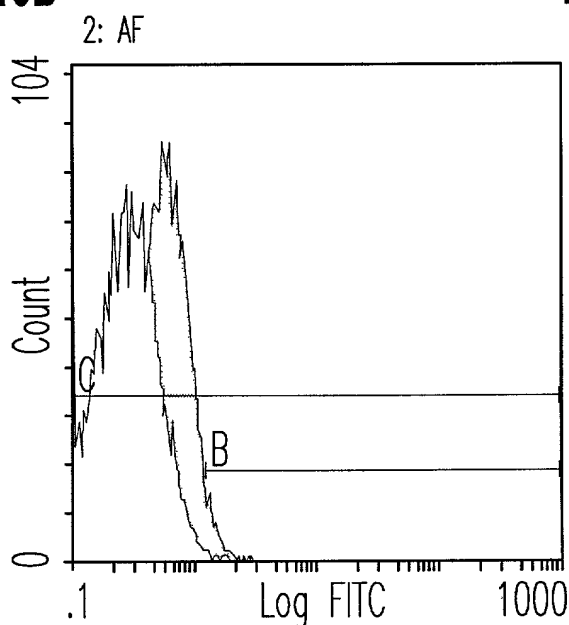
**Fig. 13A**



**Fig. 13B**

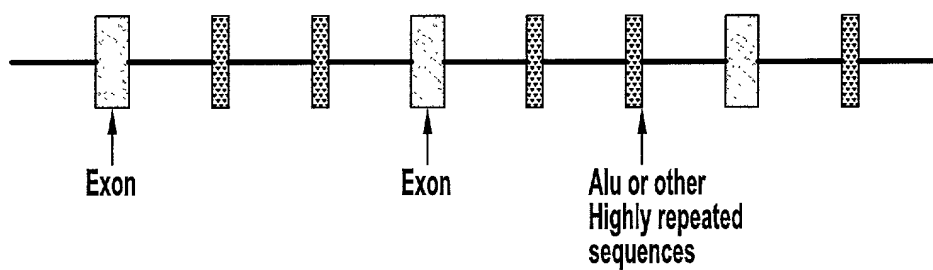


**Fig. 13C**



**Fig. 13D**

# Natural genomic structure



## Example Vector for Homologous Recombinations

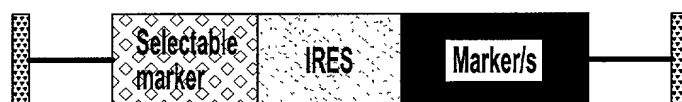
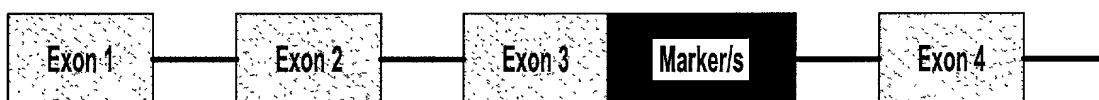


Fig. 14

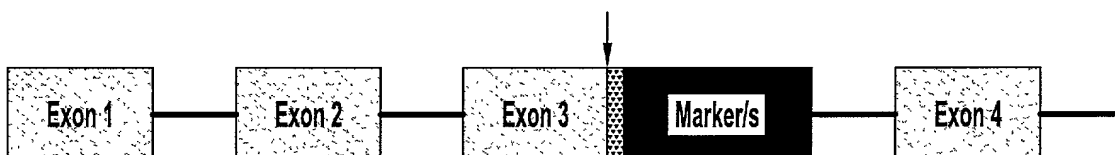
Natural genomic structure



Transfection and integration of vector/s by illegitimate recombination



1bp added to change reading frame



2bp added to change reading frame

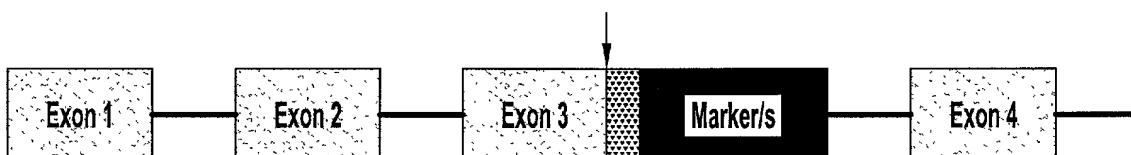
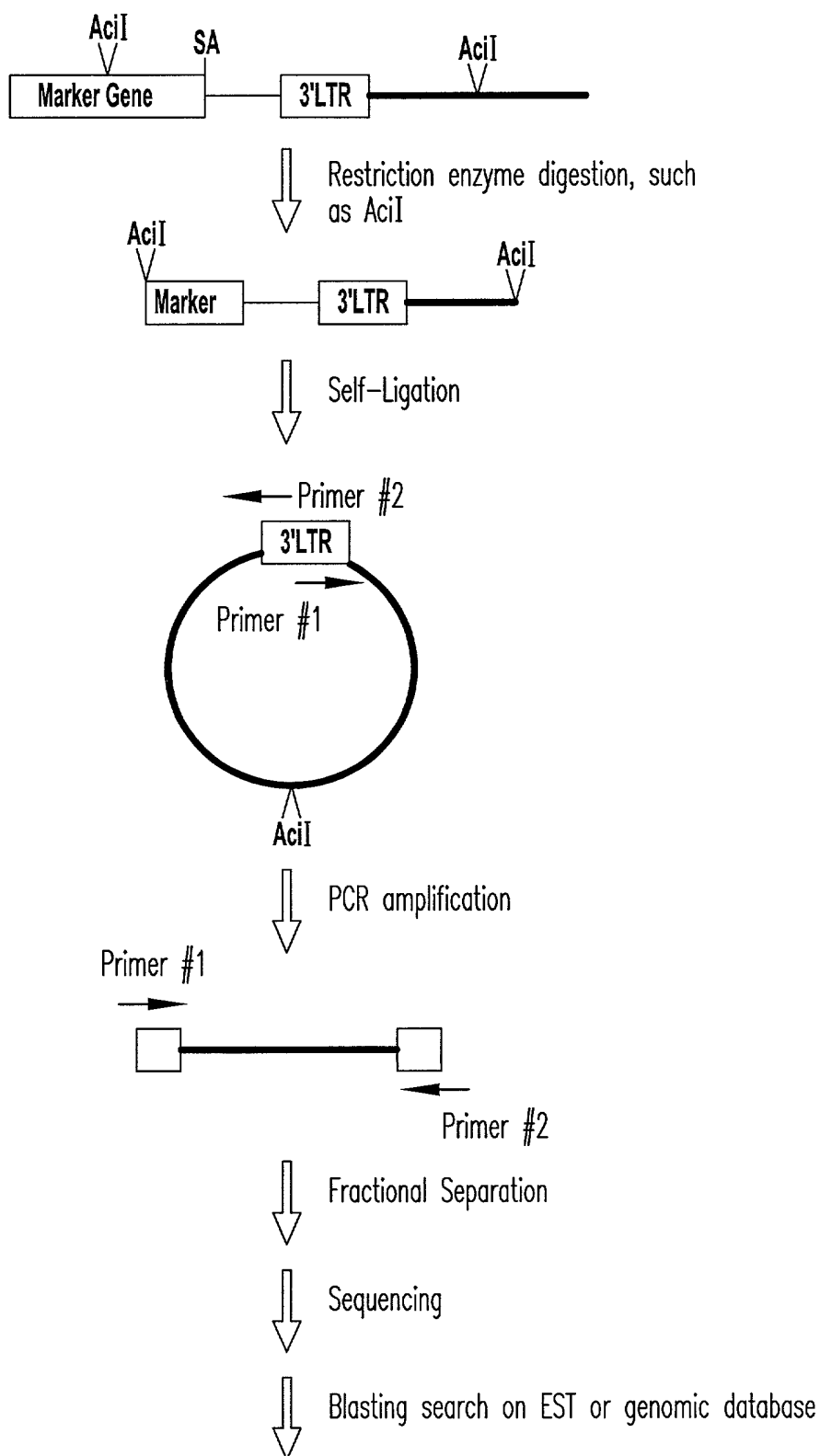


Fig. 15



Gene Exprssion Profiling Databases on target cells vs. counterpart

**Fig. 16**



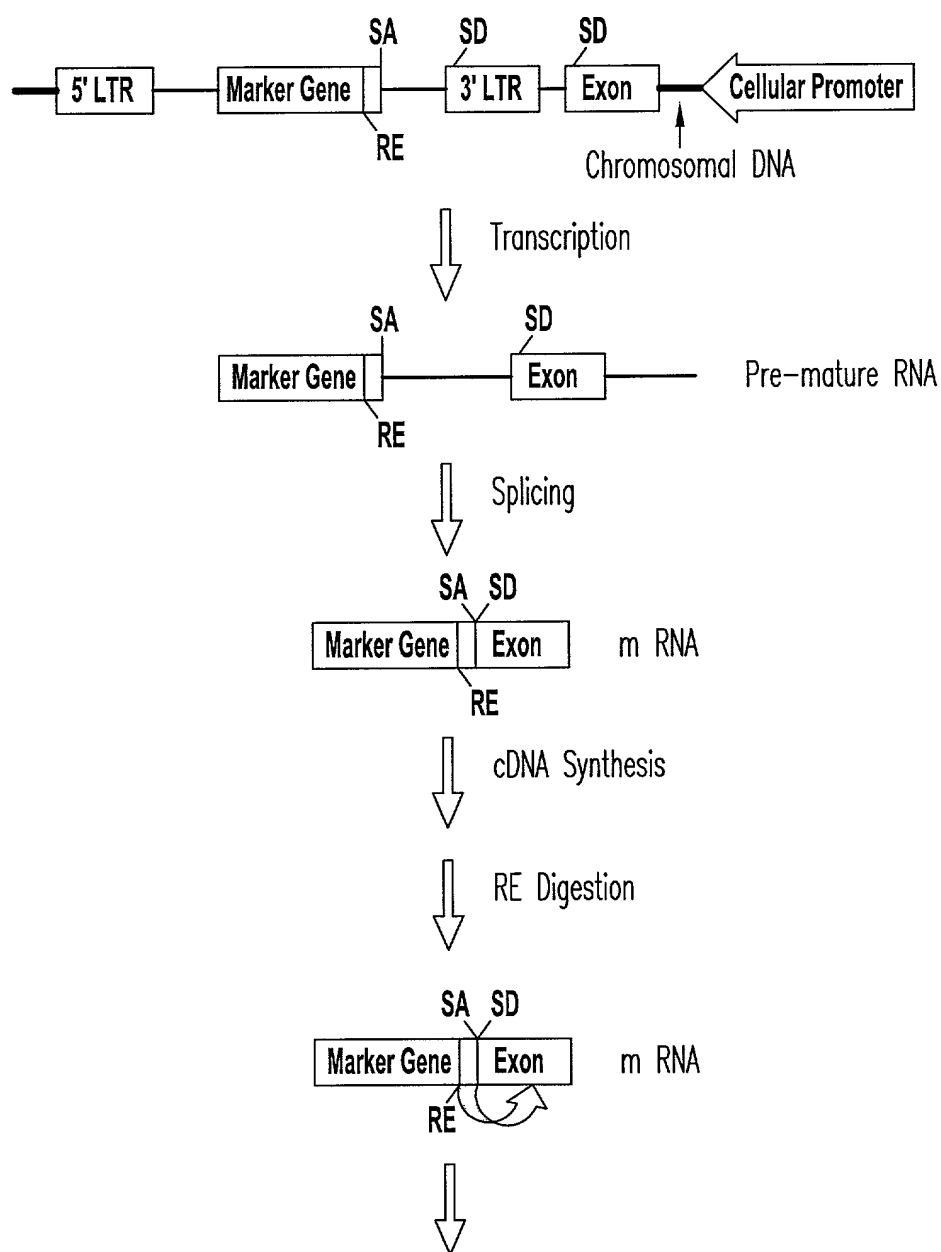
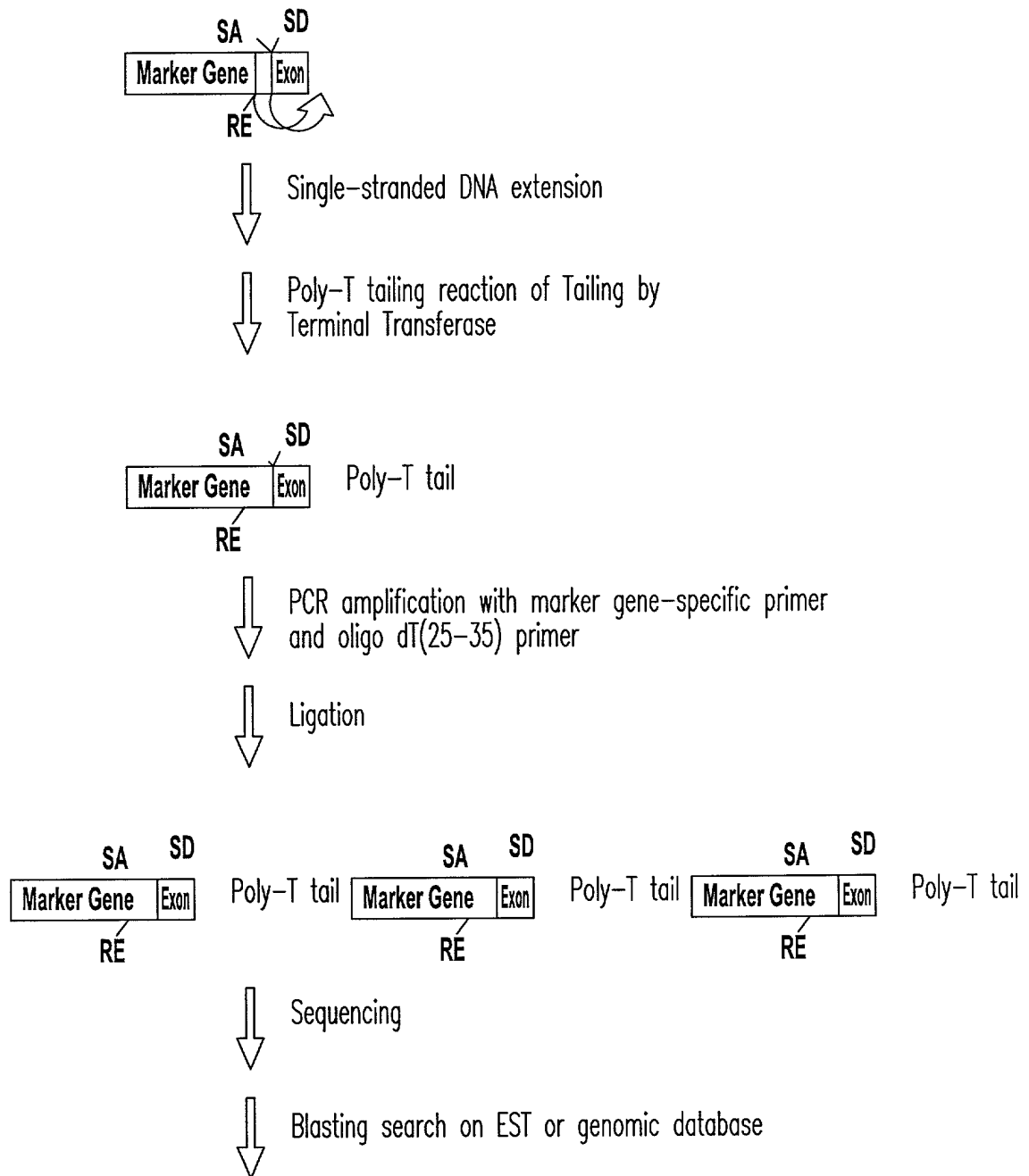


Fig. 17A



Gene Expression Profiling Database on target cells vs. counterpart

**Fig. 17B**

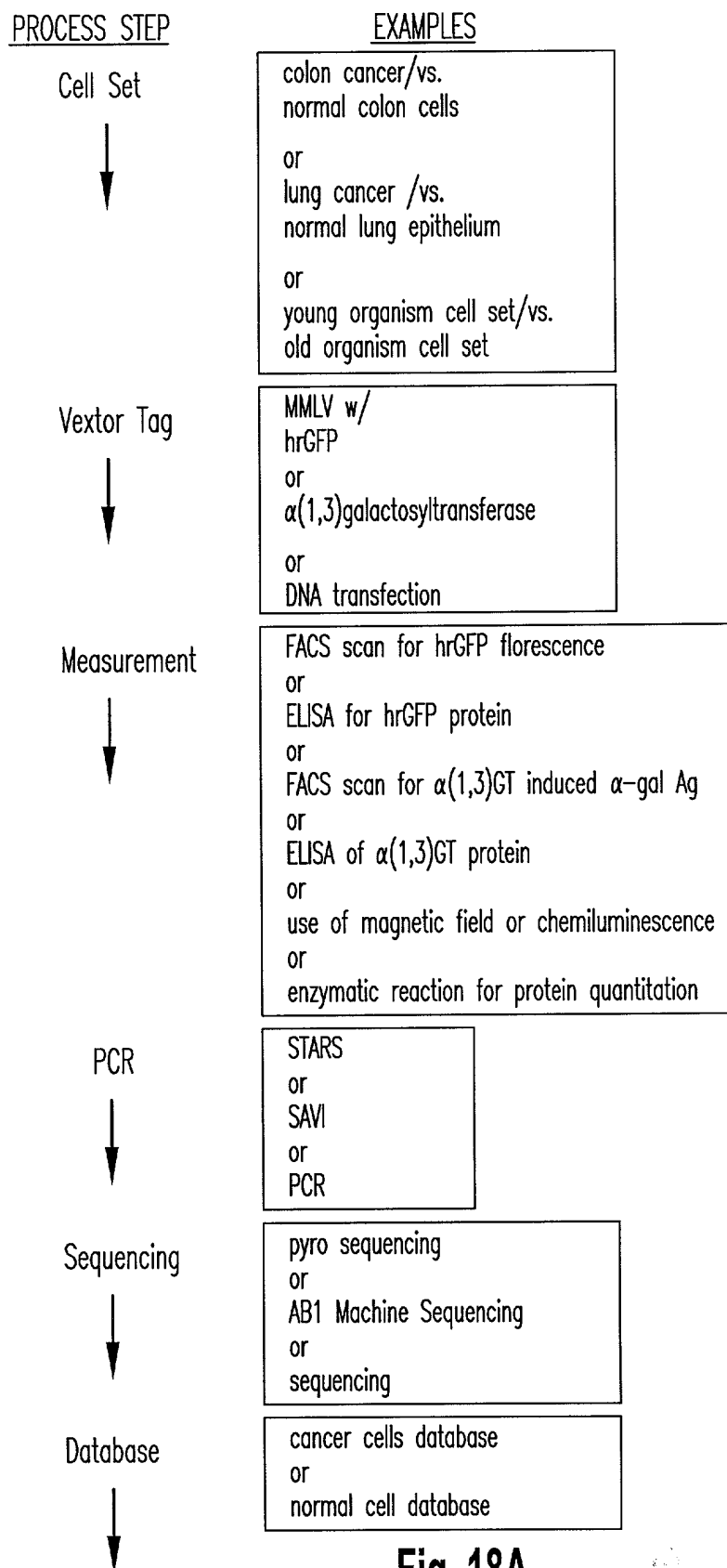


Fig. 18A

PROCESS STEP

EXAMPLES

Search Process



Comparative  
Proteonomics



Pathway  
Analysis



Target  
Validation/  
Diagnostics



Drug  
Development

Parallel BLAST search EST  
or  
Search Genome database full sequence to define intron/exon  
or  
Alternative splicing database

Compare colon cancer cell to normal colon epithelium  
or  
Compare lung cancer cell to normal lung cell

multigene co-variant  
or  
Specific cell circuit analysis e.g. cell cycle

Monoclonal kb diagnostics Northern analysis, Western analysis  
or  
DNA assay/gene chip comparison  
or  
SNP Associations  
or  
Yeast 2-hybrid fishing for protein partner

monoclonal Antibody treatment  
or  
small molecule library search and/or  
treatment  
or  
gene therapy  
or  
anti-sense  
or  
Ribozyme  
or  
any other conventional  
pharmaceutical drug development

Fig. 18B

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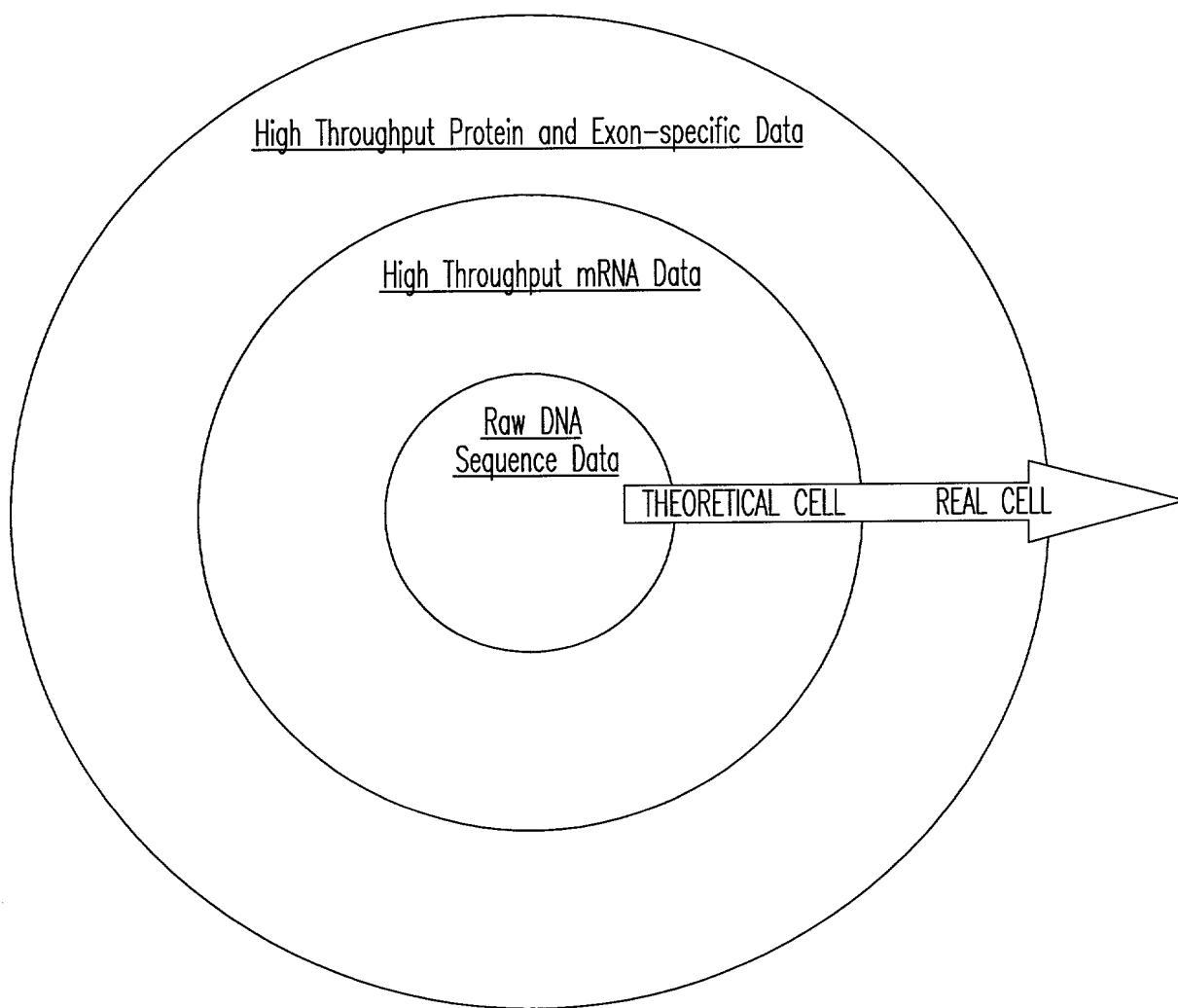


Fig. 19

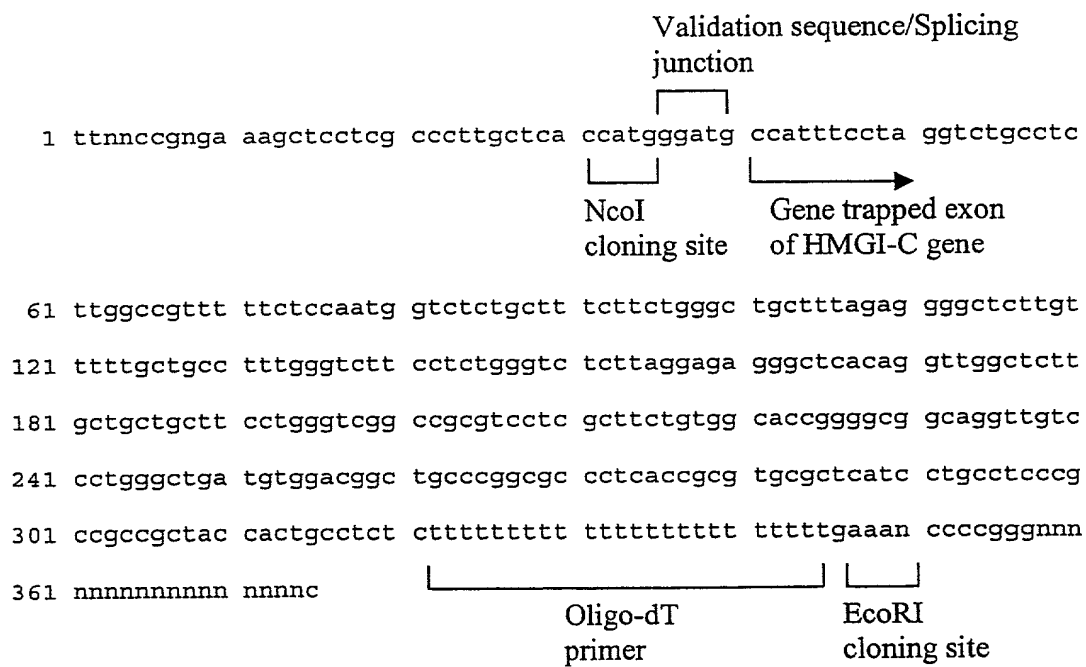
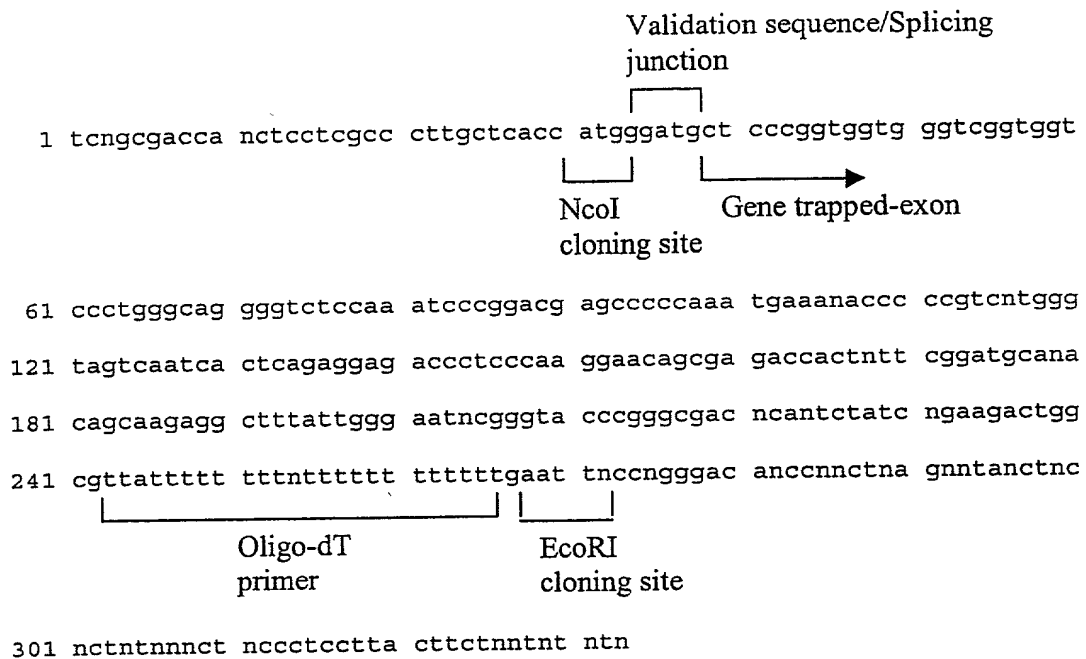


Fig. 20



//

Fig. 21